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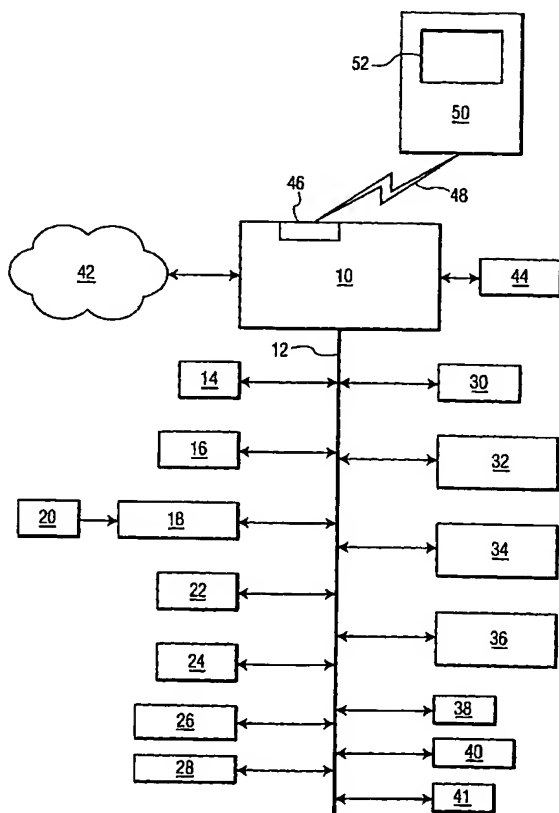
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(54) Title: A RESIDENTIAL GATEWAY SYSTEM HAVING A HANDHELD CONTROLLER WITH A DISPLAY FOR DISPLAYING VIDEO SIGNALS



(57) Abstract: A residential gateway system includes a residential gateway to which a plurality of video and audio signal recording and reproducing devices, video and audio sources, including satellite, cable, Internet, are connected, and including a handheld controller for communicating with and controlling the residential gateway. The handheld controller has a display screen for displaying icons for controlling the residential gateway, and for displaying video signals from the residential gateway. Since the display capabilities of the display screen of the handheld controller are limited, the residential gateway includes a transcoder for transcoding video signals for transmission to the handheld controller such that the transmitted video signals may be displayed in their entirety on the display screen of the handheld controller. By transcoding the video signals prior to transmission, valuable bandwidth of the network channel connecting the handheld controller to the residential gateway is saved for the transmission of other information and signals.

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